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1 [A clean slate 4D approach to network control and management](#)

 Albert Greenberg, Gisli Hjalmtysson, David A. Maltz, Andy Myers, Jennifer Rexford, Geoffrey Xie, H. Yan, Jibin Zhan, Hui Zhang
 October 2005 ACM SIGCOMM Computer Communication Review, Volume 35 Issue 5
 Publisher: ACM

 Full text available: [pdf\(313.74 KB\)](#) [Additional Information: full citation, abstract, references, cited by, index terms](#)

Bibliometrics: Downloads (6 Weeks): 29, Downloads (12 Months): 230, Citation Count: 6

Today's data networks are surprisingly fragile and difficult to manage. We argue that the root of these problems lies in the complexity of the control and management planes--the software and protocols coordinating network elements--and particularly the ...

Keywords: control, network management, robustness

2 [Performance and interoperability issues in incorporating cluster management systems with a wide-area network-computing environment](#)

 Sumalatha Adabala, Nirav H. Kapadia, José A. B. Fortes
 November 2000 Supercomputing '00: Proceedings of the 2000 ACM/IEEE conference on Supercomputing (CDROM)
 Publisher: IEEE Computer Society

 Full text available: [pdf\(3.04 MB\)](#) [Publisher Site](#) [Additional Information: full citation, abstract, references, cited by, index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 30, Citation Count: 2

This paper describes the performance and interoperability issues that arise in the process of integrating cluster management systems into a wide-area network-computing environment, and provides solutions in the context of the Purdue University Network ...

3 [LMDS/LMCS hub interconnection alternatives and multiple access issues](#)

 G. M. Stamatielos, V. N. Koukoulidis
 May 2000 Wireless Networks, Volume 6 Issue 3
 Publisher: Kluwer Academic Publishers

 Full text available: [pdf\(149.41 KB\)](#) [Additional Information: full citation, abstract, references, index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 20, Citation Count: 0

LMDS/LMCS is a broadband wireless local loop, millimeter‐wave alternative to emerging


integrated multiservice access networks. Significantly large amounts of bandwidth – in the order of one GHz of spectrum – are made available to residential ...

4 [Wireless broadband services and network management system in KT](#)

Dong-Hyun Lee, Hwan-Joong Lee, Young-Woo Lee, Dong-Houn Shin

November 2006 International Journal of Network Management, Volume 16 Issue 6

Publisher: John Wiley & Sons, Inc.

Full text available:  pdf(778.41 KB)

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 32, Downloads (12 Months): 373, Citation Count: 0


As mobile devices such as laptops and PDAs are becoming widely available, customers' needs for portable Internet services are increasing. KT has been preparing to launch a WiBro (Mobile WiM) service that is a high-speed, low-cost, wireless Internet ...

5 [Broadband internet network management software platform and systems in KT](#)

Jae-Hyoung Yoo

November 2006 International Journal of Network Management, Volume 16 Issue 6

Publisher: John Wiley & Sons, Inc.

Full text available:  pdf(999.62 KB)

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 181, Citation Count: 0

The high penetration rate of Internet access services in Korea has created an operational environment that is different from those of other countries, and thus the level of customer need takes on different aspects. To meet the operational environment, ...

6 [The convertible podium: a rich media teaching tool for next-generation classrooms](#)




Maribeth Back, Surapong Lertsithichai, Patrick Chiu, Jonathan Foote, Don Kimber, John Boreczky,

Qiong Liu, Frank Zhao, Takashi Matsumoto

July 2005 SIGGRAPH '05: ACM SIGGRAPH 2005 Educators program

Publisher: ACM

Full text available:  pdf(340.45 KB)

Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 124, Citation Count: 0

The Convertible Podium is a central control station for rich media in next-generation classrooms integrates flexible control systems for multimedia software and hardware, and is designed for use in classrooms with multiple screens, multiple media ...

Keywords: RFID, educational games, educational technology, knowledge management, multimedia, rich media, smart furniture, tangible media


7 [A framework for the automated generation of power-efficient classifiers for embedded sensor nodes](#)



Ari Y. Benbasat, Joseph A. Paradiso

November 2007 SenSys '07: Proceedings of the 5th international conference on Embedded network sensor systems

Publisher: ACM

Full text available:  pdf(306.82 KB)

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 153, Citation Count: 0

This paper presents a framework for power-efficient detection in embedded sensor systems. Static detection is structured as a decision tree classifier that dynamically orders the activation and adjusts the sampling rate of the sensors (termed groggy wakeup), ...

Keywords: dynamic power management, power-efficient detection, tiered wakeup, wearable sensors

8 [Remotely accessible sandboxed environment with application to a laboratory course in networking](#)



William D. Armitage, Alessio Gaspar, Matthew Rideout

October 2007 SIGITE '07: Proceedings of the 8th ACM SIGITE conference on Information technology education

Publisher: ACM

Full text available: [pdf\(617.49 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 35, Citation Count: 0

Authentic learning in an undergraduate networking course is best achieved when students have privileged access to their workstations and the ability to set up networks of arbitrary size and complexity. With such privileges come great risks for hosting ...

Keywords: IT education, laboratories, networking

9 [Configuring a multi-course lab for system-level projects](#)



Joel C. Adams, W. David Laverell

February 2005 ACM SIGCSE Bulletin, Volume 37 Issue 1

Publisher: ACM

Full text available: [pdf\(210.30 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 53, Citation Count: 1

Having students modify an actual operating system kernel or network protocol stack opens their eyes to what is going on "beneath the hood" of a computer. However student modifications to a system may result in an unstable computer. Because of this, giving ...

Keywords: VMWare, laboratories, networking, operating systems, user mode linux kernel

10 [Save the sprint across campus: bring the classroom to the helpdesk](#)



Mat Feithousen

October 2007 SIGUCCS '07: Proceedings of the 35th annual ACM SIGUCCS conference on User services

Publisher: ACM

Full text available: [pdf\(1.33 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 28, Citation Count: 0

At the University of Rochester, Classroom Technology is responsible for technology support for c 80 rooms, as well as computing/printing support for more than 400 computers and 24 printers spread across 15 buildings on two different campuses. All ...


Keywords: classroom support, crestron, helpdesk

Time To start charging for cleaning student computers?

Ron Nichols, Karl Hassler

November 2005 SIGUCCS '05: Proceedings of the 33rd annual ACM SIGUCCS conference on User services

Publisher: ACM

Full text available:  pdf(50.70 KB)


Additional Information: full citation, abstract, index terms

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 22, Citation Count: 0

At the University of Delaware, many students became comfortable with allowing their computer become compromised, even though infected computers and computers flagged for copyright violations would lose campus network access. We believe this is because ...


Keywords: anti-virus, charging, cleanup, spyware

12 Scalability and resource usage of an OLAP benchmark on clusters of PCs

 Michela Tauber, Thomas Stricker, Roger Weber

August 2002 SPAA '02: Proceedings of the fourteenth annual ACM symposium on Parallel algorithm and architectures

Publisher: ACM

Full text available:  pdf(219.90 KB)


Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 59, Citation Count: 1

Designing clusters of PCs for distributed databases processing OLAP(On Line Analytical Process) workloads in parallel with good scalability remains a particular challenge as we are lacking a deep understanding of the architectural issues around resource ...


Keywords: cluster of PCs, distributed OLAP processing, parallel databases, performance analysis workload characterization

13 Turning the postal system into a generic digital communication mechanism

 Randolph Y. Wang, Sumeet Sobti, Nitin Garg, Elisha Ziskind, Junwen Lai, Arvind Krishnamurthy

August 2004 SIGCOMM '04: Proceedings of the 2004 conference on Applications, technologies, architectures, and protocols for computer communications

Publisher: ACM

Full text available:  pdf(331.29 KB)

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 76, Citation Count: 4

The phenomenon that rural residents and people with low incomes lag behind in Internet access known as the "digital divide." This problem is particularly acute in developing countries, where most of the world's population lives. Bridging this digital ...


Keywords: network architecture, postal network, storage devices

14 Exploiting nonstationarity for performance prediction

 Christopher Stewart, Terence Kelly, Alex Zhang

June 2007 ACM SIGOPS Operating Systems Review, Volume 41 Issue 3

Publisher: ACM

Full text available:  pdf(2.81 MB)

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 144, Citation Count: 1

Real production applications ranging from enterprise applications to large e-commerce sites share a crucial but seldom-noted characteristic: The relative frequencies of transaction types in their workloads are *nonstationary*, i.e., the transaction ...

Keywords: LAR regression, enterprise, internet services, multi-tier, noninvasive, nonstationarity performance prediction, realistic workloads

15 Exploiting nonstationarity for performance prediction



Christopher Stewart, Terence Kelly, Alex Zhang

March 2007 EuroSys '07: Proceedings of the 2nd ACM SIGOPS/EuroSys European Conference on Computer Systems 2007

Publisher: ACM

Full text available: pdf(2.81 MB)

Additional Information: full citation, abstract, references, cited by, index terms

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Keywords: LAR regression, enterprise, internet services, multi-tier, noninvasive, nonstationarity performance prediction, realistic workloads

16 A scalable event infrastructure for peer-to-peer grids



Geoffrey Fox, Shrideep Pallickara, Xi Rao

November 2002 JGI '02: Proceedings of the 2002 joint ACM-ISCOPE conference on Java Grande

Publisher: ACM

Full text available: pdf(400.08 KB)

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 89, Citation Count: 3

In this paper we propose a peer-to-peer (P2P) grid comprising resources such as relatively static clients, high-end resources and a dynamic collection of multiple P2P subsystems. We investigate the architecture of the messaging and event service that ...

Keywords: JXTA, P2P systems, event distribution systems, grid computing, middleware

17 Transportation applications of simulation: simulation reduces airline misconnections: a case study

Suna Hafizogullari, Prathi Chinnusamy, Cenk Tunasar

December 2002 WSC '02: Proceedings of the 34th conference on Winter simulation: exploring new frontiers

Publisher: Winter Simulation Conference

Full text available: pdf(197.72 KB)

Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 30, Citation Count: 1

With most major airlines operating a hub-and-spoke system and partnering with other airlines to offer code share flights, more and more passengers are required to make at least one connection before reaching their final destination. These trends in the ...

18 Configuring a multi-course lab for system-level projects



Joel C. Adams, W. David Laverell

February 2005 SIGSE '05: Proceedings of the 36th SIGSE technical symposium on Computer science education

Publisher: ACM

Full text available:  pdf(210.30 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 53, Citation Count: 1

Having students modify an actual operating system kernel or network protocol stack opens their eyes to what is going on "beneath the hood" of a computer. However student modifications to a system may result in an unstable computer. Because of this, giving ...

Keywords: VMWare, laboratories, networking, operating systems, user mode linux kernel

19 A campus-wide solution to supporting rich media capture, conversion, & production: the media conversion lab at the University of Michigan

Robert W. Pettigrew

October 2007 SIGUCCS '07: Proceedings of the 35th annual ACM SIGUCCS conference on User services

Publisher: ACM

Full text available:  pdf(1.41 MB) Additional Information: full citation, abstract, index terms

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 26, Citation Count: 0

Increasing numbers of faculty are making assignments involving rich digital media, and the use audio, video, and digital images is becoming de rigueur in student projects. Although we see demand for the use of digital media coming from all across ...

Keywords: audio, computer labs, graphics, large-format printing, media, scanning, student sta video

20 Turning the postal system into a generic digital communication mechanism

Randolph Y. Wang, Sumeet Sobti, Nitin Garg, Elisha Ziskind, Junwen Lai, Arvind Krishnamurthy

August 2004 ACM SIGCOMM Computer Communication Review, Volume 34 Issue 4

Publisher: ACM

Full text available:  pdf(331.29 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 76, Citation Count: 4





The phenomenon that rural residents and people with low incomes lag behind in Internet access known as the "digital divide." This problem is particularly acute in developing countries, where most of the world's population lives. Bridging this digital ...

Keywords: network architecture, postal network, storage devices

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